

Organization Applicant

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<110> OrganizationName : St. Jude Children's Research Hospital

Organization Applicant

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Individual Applicant

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<110> LastName : Curran
<110> FirstName : Thomas
<110> MiddleInitial :
<110> Suffix :

Individual Applicant

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<110> LastName : Keshvara
<110> FirstName : Lakhu
<110> MiddleInitial :
<110> Suffix :

Application Project

<120> Title : Cyclin Dependent Kinase 5 Phosphorylation of Disabled 1 Protein

```
<130> AppFileReference : SJ-01-0032
<140> CurrentAppNumber : 10/078,927
<141> CurrentFilingDate : 2002-02-19

Sequence
-----
<213> OrganismName : Mus musculus
<400> PreSequenceString :
QSSPSK
6
<212> Type : PRT
<211> Length : 6
    SequenceName : Seq ID#1
    SequenceDescription :

Feature
-----
Sequence: Seq ID#1:
<221> FeatureKey : SITE
<222> LocationFrom : 3
<222> LocationTo : 3
    Other Information : Serine at residue #3 equates to Serine491 in mouse
Dab1 sequence
Cdk5 phosphorylation of Serine requires a Proline (P) in the +1 position and a
Lysine (K) in the +3 position
    CDSJoin : No

Feature
-----
Sequence: Seq ID#1:
<221> FeatureKey : DOMAIN
<222> LocationFrom : 1
<222> LocationTo : 6
    Other Information : smallest carboxy terminal Dab1 tryptic fragment
containing a Cdk5 phosphorylation site
    CDSJoin : No

Sequence
-----
<213> OrganismName : Mus musculus
<400> PreSequenceString :
SSASHVSDPT ADDIFEEGFE SPSK
24
<212> Type : PRT
<211> Length : 24
    SequenceName : Seq ID#2
    SequenceDescription :

Feature
-----
Sequence: Seq ID#2:
<221> FeatureKey : SITE
<222> LocationFrom : 21
<222> LocationTo : 21
    Other Information : Serine at Reisdue 21 equates to Serine515 in mouse
Dab1 sequence
Cdk5 phosphorylation of Serine requires a Proline (P) in the +1 position and a
Lysine (K) in the +3 position
    CDSJoin : No
```

Feature

Sequence: Seq ID#2:
<221> FeatureKey : DOMAIN
<222> LocationFrom : 1
<222> LocationTo : 24
 Other Information : Dab1 tryptic fragment containing a Cdk5
phosphorylation site
 CDSJoin : No

Sequence

<213> OrganismName : Mus musculus
<400> PreSequenceString :
TPAPRQSSPS KSSA 14
<212> Type : PRT
<211> Length : 14
 SequenceName : Seq ID#3
 SequenceDescription :

Feature

Sequence: Seq ID#3:
<221> FeatureKey : MOD_RES
<222> LocationFrom : 8
<222> LocationTo : 8
 Other Information : PHOSPHORYLATION, equates to Serine491 in mouse Dab1
sequence
Cdk5 phosphorylation of Serine requires a Proline (P) in the +1 position and a
Lysine (K) in the +3 position
 CDSJoin : No

Feature

Sequence: Seq ID#3:
<221> FeatureKey : DOMAIN
<222> LocationFrom : 1
<222> LocationTo : 14
 Other Information : Dab1 phosphopeptide domain used for antibody
production
 CDSJoin : No